

ILS-606DBR ILS-606DSR ILS-625DCR

USER MANUAL



This manual includes instructions and overview on the following 3 CHAUVET products;
ILS-606DBR, ILS-606DSR and ILS-625DCR.



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BEFORE YOU BEGIN

What is included

- One of the following;
 - ILS-606DBR - Trackscan 250DBR-ILS™
 - ILS-606DSR - Trackscan 250DSR-ILS™
 - ILS-625DCR - Colortrack 250DCR-ILS™
- Power cord with plug
- MSD-250 Discharge lamp
- Removable Floor Stands
- Warranty Card

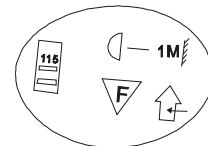
Unpacking Instructions

Immediately upon receiving a fixture, carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

AC Power

To determine the power requirements for a particular fixture, see the label affixed to the back plate of the fixture or refer to the fixture's specifications chart. A fixture's listed current rating is its average current draw under normal conditions. All fixtures must be powered directly off a switched circuit and cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch. Before applying power to a fixture, check that the source voltage matches the fixture's requirement. Check the fixture or device carefully to make sure that if a voltage selection switch exists that it is set to the correct line voltage you will use.

Figure 1 - AC Voltage Switch



Warning! *Verify that the power select switch on your unit matches the line voltage applied. All fixtures must be connected to circuits with a suitable Earth Ground.*

Safety Instructions



Please read these instructions carefully, which includes important information about the installation, usage and maintenance?



- Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Always make sure that you are connecting to the proper voltage and that the line voltage you are connecting to is not higher than that stated on decal or rear panel of the fixture.
- This product is intended for indoor use only!
- To prevent risk of fire or shock, do not expose fixture to rain or moisture. Make sure there are no flammable materials close to the unit while operating.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Always disconnect from power source before servicing or replacing lamp or fuse and be sure to replace with same lamp source.
- Secure fixture to fastening device using a safety chain. Never carry the fixture solely by its head. Use its carrying handles.
- Maximum ambient temperature is Ta: 40°. Do not operate fixture at temperatures higher than this.
- In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- Don't connect the device to a dimmer pack.
- Make sure power cord is never crimped or damaged.
- Never disconnect power cord by pulling or tugging on the cord.
- Avoid direct eye exposure to lamp while it is on.

Caution! *There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact CHAUVET.*

INTRODUCTION

Features

- 7 interchangeable rotating gobos
- 9 trapezoid cut dichroic colors plus white
- manual focus
- mechanical dimming
- super bright 250 watt discharge lamp, 2000 hour life
- switch-selectable power settings 115V or 230V, (240V version available)
- clear digital segment display
- ILS Integrated Lighting System for advanced pre-programmed functions
- high efficiency optical system
- removable fixture floor stand
- dichroic coated optics

DMX Channel Summary

606DBR & 606DSR

CHANNEL	FUNCTION
1	Pan
2	606DBR: Barrel rotation 606DSR: Tilt
3	Shutter
4	Gobos
5	Color
6	Gobo Rotation
7	Dimmer

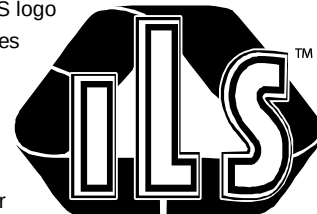
625DCR

CHANNEL	FUNCTION
1	Shutter
2	Gobos
3	Color
4	Gobo Rotation
5	Dimmer

What is ILS?

ILS stands for Integrated Lighting System. CHAUVET fixtures with the ILS logo are equipped with an advanced independent show technology that enables synchronization across all intelligent lighting fixtures within the group. Gobos, colors and chases are among the various features that synchronize. In Master/Slave mode, the first fixture in the chain will automatically address fixtures that follow. In conjunction with the ILS-CON controller, ILS fixtures are also addressed remotely by the controller further reducing the time to setup prior to a show.

In short, CHAUVET's ILS fixtures give the user the power and the speed to perform efficiently and effectively in the shortest possible time.



INTEGRATED LIGHTING SYSTEM

Product Overview

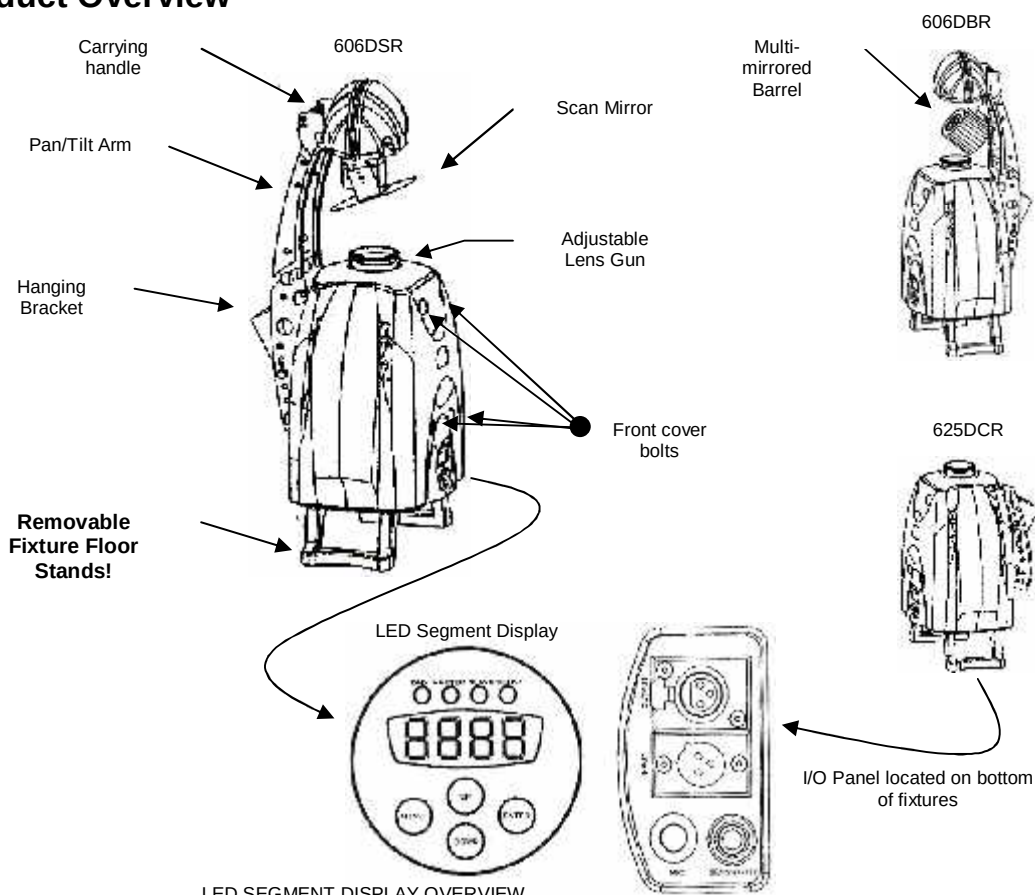


Figure 2 Product Overview

LED SEGMENT DISPLAY OVERVIEW		
LED INDICATORS	STATUS	FUNCTION
DMX	On	DMX input is present
MASTER	On	Unit is in the Master operating mode
Slave	On	Unit is in the Slave operating mode
Sound	Flashing	Sound Active mode is on

SEGMENT BUTTONS I/O PANEL OVERVIEW

BUTTONS		I/O PANEL	
MENU	Toggles programming functions	DMX Out & In	DMX-512 connectors
DOWN	Steps backward through menu functions	MIC	Built in microphone
UP	Steps forward through menu functions	Sensitivity POT	Sets audio sensitivity
ENTER	Confirms selected menu function	Remote control	Accepts 1/4" connector from the "CA-8 or CA-8F Easy Controller" providing Stand By, Strobe/Next and Show1 1/Slow/Show 2 functions.

SETUP

Lamp

You will need to install a lamp prior to the initial operation of the fixture. A MSD250 high intensity discharge lamp is included.

Warning! *When replacing the lamp, please wait 15 minutes after powering down to allow the unit to cool down! Always disconnect from main power prior to lamp replacement.*

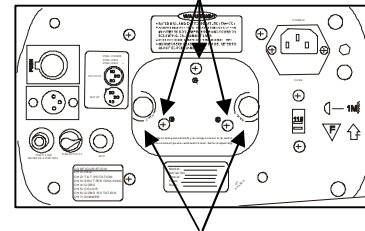
Do not touch the envelope (glass area) of the bulb with bare hands. If this happens, clean the lamp with alcohol and wipe it with a lint free cloth before installation.

LAMP INSTALLATION

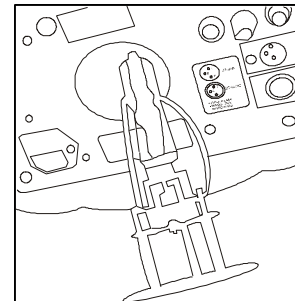
- 1) Remove both thumbscrews located on the bottom of the fixture.
- 2) Pull out lamp socket plate as pictured to the right.
- 3) If replacing the lamp, remove old lamp first.
- 4) Holding the new lamp by its base, align the small pin on the lamp with the small hole in the socket and insert the lamp squarely until the retaining clips on the lamp socket secures the lamp tightly.
- 5) Clean the glass/envelope of the bulb with an alcohol wipe or equivalent.
- 6) Holding the lamp socket plate, insert the tip of the lamp into the fixture with extreme care. Navigate the lamp all the way until it reaches the reflector and the lamp base plate touches the bottom plate of the fixture.
- 7) Align the screw holes and fasten the thumbscrews back onto the lamp socket plate.
- 8) If you are replacing the lamp, you may want to log the fixture hours in order to track the lamps use. Navigate to the {FhrS} on the menu display to obtain this information.
- 9) Turn the fixture on and adjust the lamp alignment screws until the brightest most even area of the beam is in the center of your spot. It may be necessary for you to use a controller in order to command the fixture to display a white beam on a flat surface with no gobos or colors.

ILS-6xx Lamp Installation

Lamp alignment screws



Remove both thumbscrews



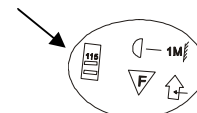
Power

Your product is equipped with switch-selectable AC power setting.

Warning! *Verify that the power select switch on your unit matches the line voltage applied. All fixtures must be connected to circuits with a suitable Earth Ground.*

- To determine the power requirements for a particular fixture, see the label affixed to the back plate of the fixture or refer to the fixture's specifications chart.
- A fixture's listed current rating is its average current draw under normal conditions.
- All fixtures must be powered directly off a switched circuit and cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch.
- Before applying power to a fixture, check that the source voltage matches the fixture's requirement.
- All fixtures must be connected to circuits with a suitable Earth Ground.

Slide switch up or down depending on your line voltage.



OPERATING INSTRUCTIONS

Menu Navigation

To select any of the pre-set functions, press the **MENU** button until the desired function is shown on the display. Select the function by pressing the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to change the settings. Once the required setting has been selected, press the **ENTER** button to activate it. If you do not press the **ENTER** button, it will automatically return to the main functions without any change after idling 8 seconds. To go back to the functions without any change press the **MENU** button. The main functions are shown below:



Figure 3 - Display Panel Diagram

Upon powering up the unit, you will notice that it will display a fixture ID. In addition, the fixtures electronics will load up its programming and home (adjust) its motors to a starting position. The sequence of events

should take no more than 20 seconds and it is necessary for the fixture to operate correctly. During this time you will hear motor and mechanical movement inside the fixture. After this initial power-up sequence, if the fixture receives no DMX signal, it will enter into a stand alone mode. Be sure to power up your DMX controller device before the lighting fixture to avoid unwanted auto mode operation.

Operating Modes

All models can be operated in three different ways.

- A stand-alone mode will listen to sound and run through its diverse range of built in programs.
- Master/Slave mode will allow the command of up to as many units you want in a synchronized light show to the sound.
- DMX control mode will provide the greatest flexibility and creativity. Each fixture trait can be controlled individually using any universal DMX-512 controller.

STAND ALONE

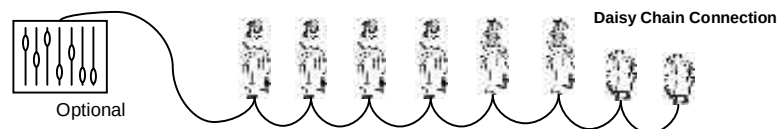
The Stand Alone mode is activated automatically when the fixture is absent of DMX signal or a controller is not connected. All models will run through their built in programs as they listen to the sound.

MASTER/SLAVE

The Master/Slave mode will allow you to link multiple units in a daisy chain fashion. In this mode, the first unit in the daisy chain will automatically command all other units following. The ILS system provides for the synchronization of all CHAUVET products whose model number is pre-fixed by the letters ILS.

Master/Slave operation does not require any menu or setting selections. Simply connect each fixture in a daisy like fashion using qualified 3 pin DMX cables as described below. The first unit in the chain will operate in a Stand/Alone mode and all units following will synchronize to the first unit.

- 1) Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the first fixture.
- 2) Connect the end of the cable coming from the first fixture which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector. Then, proceed to connect from the output as stated above to the input of the following fixture and so on as illustrated below in "Daisy Chain Connection".



DMX MODE

Operating in a DMX Control mode environment gives the user the greatest flexibility when it comes to customizing or creating a show. You can tailor your programming to suit a specific event. Whether it is a wedding where a spot light may be required or a lead singer requiring a color solo, the opportunities are endless. In this mode you will be able to control each individual trait of the fixture independently.

Menu Functions

DMX-512 addressing {Addr}

This mode enables the use of a universal DMX controller device. Each fixture requires a "start address" from 1 to 511. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address. For example, a fixture that occupies or uses 6 channels of DMX and was addressed to start on DMX channel 100, would read data from channels: 100, 101, 102, 103, 104, and

105. Choose start addresses so that the channels used do not overlap and notate the start address selected for future reference.

If this is your first time addressing a fixture using the DMX-512 control protocol than I suggest jumping to the Appendix Section and read the heading "DMX Primer". It contains very useful information that will help you understand its use.

FIXTURE	DMX CHANNELS	NOTES
ILS-606DSR	7	When calculating the next starting address for a particular fixture, simply add the number of channels used by the last fixture to the starting address of the last fixture. The result is the starting address of the next fixture. Example: Fixture # 1 Uses 7 Channels, Set to DMX 001 Add 7 to the previous start address 007 + Fixture # 2 Uses 6 Channels, Set to DMX 008 Total Add 6 to the previous start address 006 + Fixture # 3 Uses 4 Channels, set to DMX 014 Total
ILS-606DBR	7	
ILS-625DCR	5	

Caution! *Some controllers are factory configured to control a specific range of channels per fixture. For example, you may have a controller pre-set to control 10 channels per fixture for a total of 12 fixtures. In this case you would be required to separate all fixtures in 10 channel increments instead of the true number of channels your particular fixture utilizes.*

SETTING THE STARTING ADDRESS

- 1) Press the **MENU** button until the display reads {Addr}.
- 2) Press the **ENTER** button to select DMX addressing. Once selected the display will read either a 1 or any other number that may have previously been set. You must make a selection within 6 seconds.
- 3) Press the **UP** and **DOWN** buttons to increase or decrease values until the desired value is achieved.
- 4) Press the **ENTER** button to activate selection.

Master/Slave settings {SLNd} ➤ {SL 1} ➤ {SL 2}

By linking the units under a master/slave control mode, the first unit can direct additional units to create a sound activated, synchronized light show. This is very useful for mobile DJs who want to setup and run a show quickly.

In this mode the fixture is assigned a master status and is indicated by the **MASTER** LED. If the fixture is not connected to a controller then it will automatically enter a sound activated state. You can adjust the microphone sensitivity pot on the fixture for optimum sound recognition. Any other units connected will automatically be assigned to {SL 1} mode, which is the standard Slave mode providing unison synchronized movements and gobo-color changes.

SETTING THE ALTERNATE SLAVE MODE {SL 2}

Unlike {SL 1}, {SL 2} enhances the pre-programmed shows by contrasting the movements. Once you select this mode, the fixture will remember it the next time your power up.

- 1) Tap the **MENU** button until the display reads {SLNd}.
- 2) Press the **ENTER** button to select this function. The selection is confirmed when the display begins to blink. You must make a selection within 8 seconds.
- 3) Press the **UP** and **DOWN** buttons to toggle between the Slave Shows available. **Note!** There are 4 shows available in Model # ILS-625DCR and 2 shows in the rest.
- 4) Press the **ENTER** button to activate selection.

User Configurations {CLNd}, {IPan}, {ItLt}, {Irot}-606DBR, {IdIN}

All of the fixtures have three user selectable run-time configurations that change the behavior of a certain function. The three functions are described below.

COLOR MODE {CLNd}

This mode allows you to select whether your controller will access the color palettes in solid colors only or solid and split colors.

- 1) Tap the **MENU** button until the display reads {CLNd}.
- 2) Press the **ENTER** button to select this function. The selection is confirmed when the display begins to blink. You must make a selection within 8 seconds.
- 3) Press the **UP** and **DOWN** buttons to toggle between the {SC} for split colors and {no} for no split colors.
- 4) Press the **ENTER** button to activate selection.

PAN INVERT {IPAN} – TILT INVERT {ITLT} – {IROT}

It is possible to invert the pan and tilt mirror movement from within the fixture itself. This could be helpful in situations where the positioning or rigging of a fixture led to a reverse orientation of the fixture in relation to all or most other fixtures installed. When choosing to command the pan or tilt of all fixtures at the same time you will notice that the fixtures whose orientation is different from the others will most likely move opposite of the rest. You can apply a pan and tilt Invert by following these instructions.

- 1) Tap the **MENU** button until the display reads {IPan} or {ItLt}.
- 2) Press the **ENTER** button to select this function. The selection is confirmed when the display begins to blink. You must make a selection within 8 seconds.
- 3) Press the **UP** and **DOWN** buttons to toggle between the {} for inverse and {no} for none.
- 4) Press the **ENTER** button to activate selection.
- 5) **Note!** For the 606DBR Barrel Scan, the {ItLt} function is replaced with {Irot} which reverses the rotation of the Barrel mirror instead.

DIMMER INVERT {IdIN} – (VER B. MODELS)

This function will invert the dimmer channel. **Function available only on version (B) models.**

See Appendix section "Version (B) Models" for determining the correct version of your fixture.

- 1) Tap the **MENU** button until the display reads {IdIN}.
- 2) Press the **ENTER** button to select this function. The selection is confirmed when the display begins to blink. You must make the selection within 8 seconds.
- 3) Press the **UP** and **DOWN** buttons to toggle between the {} for inverse and {no} for normal.
- 4) Press the **ENTER** button to activate selection.

Segment Display Configurations {Led}, {IdSP}

The LED segment display can be set to off after 8 seconds of no menu activity. The LED will display again as soon as the menu is accessed by pressing any of the buttons. The display can also be inverted making it easier to read the menu depending on the orientation of your fixture.

TURNING THE DISPLAY OFF {LED}

- 1) Tap the **MENU** button until the display reads {Led}.

- 2) Press the **ENTER** button to select this function. The selection is confirmed when the display begins to blink. You must make a selection within 8 seconds.
- 3) Press the **UP** and **DOWN** buttons to toggle between the {on} and {off} setting.
- 4) Press the **ENTER** button to activate selection.
- 5) **Note!** This configuration is set on an individual fixture basis.

DISPLAY INVERSE {IDSP}

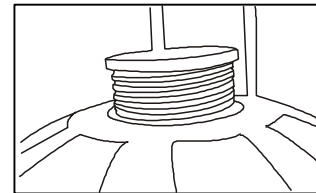
- 1) Tap the **MENU** button until the display reads {IdSP}.
- 2) Unlike in other instructions, pressing the **ENTER** button will toggle between { IdSP} for normal and {dSPi} for reversed.
- 3) Press the **MENU** button to confirm or leave alone for 8 seconds.

Fixture Test and Service Functions {FAdJ}, {teSt}, {FhrS}, {rSet}

FOCUS ADJUSTMENT {FADJ}

The focus adjustment tool activates a pre-set program that turns the lamp on and projects a gobo image so that you can manually adjust the focus.

- 1) Tap the **MENU** button until the display reads {FAdJ}.
- 2) Press **ENTER** and the display will blink.
- 3) Adjust the focus by rotating the lens gun in the direction that brings the image into focus.
- 4) Press the **MENU** button to leave this mode.



FIXTURE SELF-TEST {TEST}

The test sequence will run through all of the projection capabilities of each individual fixture, including gobo and color effects.

- 1) Tap the **MENU** button until the display reads {teSt}.
- 2) Press **ENTER** and the fixture will immediately begin to play back a test sequence. Observe tentatively for any abnormalities.
- 3) Press the **MENU** button to leave this mode.

FIXTURE RESET {RSET}

This function will re-initialize the fixture by returning all motors to its startup positions or otherwise known as (home position).

- 1) Tap the **MENU** button until the display reads {rSet} and press **ENTER**.

FIXTURE HOURS {FHRS}

The (fixture hours) readout displays the number of hours the fixture has been in use. It is not uncommon to find new fixtures with a few logged hours. This means the fixture was thoroughly tested prior to delivery.

- 1) Tap the **MENU** button until the display reads {FhrS}.
- 2) Press **ENTER** to view the total working hours.
- 3) You can leave alone and the display will return to the regular menu or press **MENU** button to return to main menu.

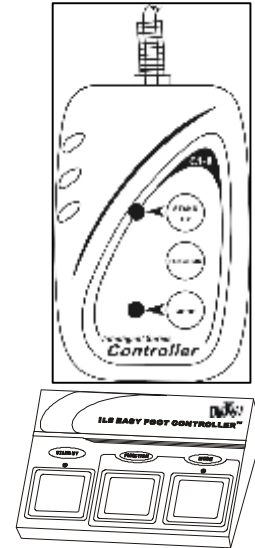
CA-8 & CA-8F Easy Controller (Optional)

The CA-8 Easy Controller is used only in master/slave mode. Connect the controller to the 1/4" microphone jack in the first unit. The table below describes the different preset shows the CA-8 Controller can command.

CA-8 & CA-8F BUTTONS

STAND BY	MODE	FUNCTION
BLACKOUT	(LED off) Sound	Fixture: All Strobe 1. Gobo/color sync strobe 2. sync strobe 3. two light strobe
	(LED blinks normal) Sound	Fixture: 606DBR & 606DSR (X/Y) moving patterns (12 patterns user selectable) Fixture: 625DCR Chase Pattern selection (6 patterns)
	(LED on) Slow/Sound	Fixture: All Color/Gobo selection (Hold for gobo change, tap for color change.)
	(LED blinks fast) Position	Fixture: 606DBR & 606DSR X/Y moving position, dimmer setting Fixture: 625DCR Dimmer setting

CA-8 Easy Controller & the CA-8F Foot Controller



Note! All programmed movements are built into the fixtures and are triggered by the CA-8(F) controllers.

X/Y Moving Patterns for CA-8 Controller

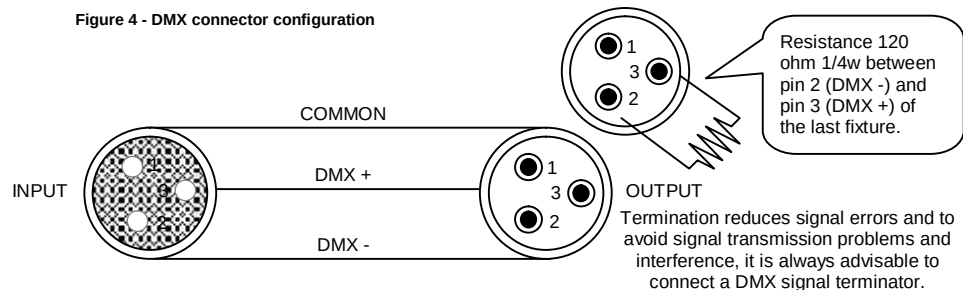


APPENDIX

DMX Primer

There are 512 channels in a DMX-512 connection. Channels may be assigned in any manner. A fixture capable of receiving DMX-512 will require one or a number of sequential channels. The user must assign a starting address on the fixture that indicates the first channel reserved in the controller. There are many different types of DMX controllable fixtures and they all may vary in the total number of channels required. Choosing a start address should be planned in advance. Channels should never overlap. If they do, this will result in erratic operation of the fixtures whose starting address is set incorrectly. You can however, control multiple fixtures of the same type using the same starting address as long as the intended result is that of unison movement or operation. In other words, the fixtures will be slaved together and all respond exactly the same.

DMX fixtures are designed to receive data through a serial Daisy Chain. A Daisy Chain connection is where the DATA OUT of one fixture connects to the DATA IN of the next fixture. The order in which the fixtures are connected is not important and has no effect on how a controller communicates to each fixture. Use an order that provides for the easiest and most direct cabling. Connect fixtures using shielded two conductor twisted pair cable with three pin XLR male to female connectors. The shield connection is pin 1, while pin 2 is Data Negative (S-) and pin 3 is Data positive (S+). CHAUVET carries 3-pin XLR DMX compliant cables, DMX-10 (33'), DMX-4.5 (15') and DMX-1.5 (5')



FIXTURE LINKING

Note!

If you use a controller with a 5 pin DMX output connector, you will need to use a 5 pin to 3 pin adapter. CHAUVET Model No: DMX5M. The chart below details a proper cable conversion:

3 PIN TO 5 PIN CONVERSION CHART

Conductor	3 Pin Female (output)	5 Pin Male (Input)
Ground/Shield	Pin 1	Pin 1
Data (-)signal	Pin 2	Pin 2
Data (+) signal	Pin 3	Pin 3
Do not use		Do not use
Do not use		Do not use

DMX Channel Values (606DSR & 606DBR)

CHANNEL	VALUE		FUNCTION	
1	000 ⇔ 255		Pan Left > Right (128 = center)	
2	000 ⇔ 255		Tilt – 606DSR Up > Down (128 = center)	
	000 ⇔ 009 010 ⇔ 120 121 ⇔ 134 135 ⇔ 245 246 ⇔ 255		Barrel Rotation - 606DBR Stopped Fast > Slow (counter-clockwise) Stopped Slow > Fast (clockwise) Stopped	
3	000 ⇔ 007 008 ⇔ 015 016 ⇔ 131 132 ⇔ 247 248 ⇔ 255		Shutter/Shaking Blackout Open Slow > Fast (shutter) Slow > Fast (shaking) Open	
4	000 ⇔ 015 016 ⇔ 031 032 ⇔ 047 048 ⇔ 063 064 ⇔ 079 080 ⇔ 095 096 ⇔ 111 112 ⇔ 127 128 ⇔ 255		Gobo Open Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Slow > Fast (gobo scroll)	
5	(normal)	(CS)	Color (normal)	CS (color split mode)
	000 ⇔ 012 013 ⇔ 025 026 ⇔ 038 039 ⇔ 051 052 ⇔ 063 064 ⇔ 076 077 ⇔ 089 090 ⇔ 102 103 ⇔ 115 116 ⇔ 127 128 ⇔ 255	000 ⇔ 007 008 ⇔ 015 016 ⇔ 022 023 ⇔ 030 031 ⇔ 037 038 ⇔ 045 046 ⇔ 052 053 ⇔ 060 061 ⇔ 067 068 ⇔ 075 076 ⇔ 082 083 ⇔ 090 091 ⇔ 097 098 ⇔ 105 106 ⇔ 112 113 ⇔ 120 121 ⇔ 127 128 ⇔ 255	Open (white) Green Magenta Light Blue Yellow Orange Blue UV Purple Light Green Pink Slow > Fast (color scroll)	Open (white) Green Green + Magenta Magenta Magenta + Light Blue Light Blue Light Blue + Yellow Yellow Yellow + Orange Orange Orange + Blue Blue Blue + UV Purple UV Purple UV Purple + Light Green Light Green Pink Slow > Fast (color scroll)
6	000 ⇔ 009 010 ⇔ 120 121 ⇔ 134 135 ⇔ 245 246 ⇔ 255		Gobo rotation Stopped Fast > Slow (counter clockwise) Stopped Slow > Fast (clockwise) Stopped	
7	000 ⇔ 255		Dimmer Closed > Open	
			Dimmer (Version B) User Selectable {IdIN} function {no} = Close > Open (0% to 100%) {f} = Open > Close (100% to 0%)	

DMX Channel Values (625DCR)

CHANNEL	VALUE		FUNCTION	
1	000 ⇔ 007		Shutter/Shaking Blackout Open Slow > Fast (shutter) Slow > Fast (shaking) Open	
	008 ⇔ 015			
	016 ⇔ 131			
	132 ⇔ 247			
	248 ⇔ 255			
2	000 ⇔ 015		Gobo Open Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Slow > Fast (gobo scroll)	
	016 ⇔ 031			
	032 ⇔ 047			
	048 ⇔ 063			
	064 ⇔ 079			
	080 ⇔ 095			
	096 ⇔ 111			
	112 ⇔ 127			
	128 ⇔ 255			
3	(normal)	(CS)	Color (normal) Open (white) Green Magenta Light Blue Yellow Orange Blue UV Purple Light Green Pink Slow > Fast (color scroll)	CS (color split mode) Open (white) Green Green + Magenta Magenta Magenta + Light Blue Light Blue Light Blue + Yellow Yellow Yellow + Orange Orange Orange + Blue Blue Blue + UV Purple UV Purple UV Purple + Light Green Light Green Pink Slow > Fast (color scroll)
	000 ⇔ 012	000 ⇔ 007		
	013 ⇔ 025	008 ⇔ 015		
	026 ⇔ 038	016 ⇔ 022		
	039 ⇔ 051	023 ⇔ 030		
	052 ⇔ 063	031 ⇔ 037		
	064 ⇔ 076	038 ⇔ 045		
	077 ⇔ 089	046 ⇔ 052		
	090 ⇔ 102	053 ⇔ 060		
	103 ⇔ 115	061 ⇔ 067		
	116 ⇔ 127	068 ⇔ 075		
	128 ⇔ 255	076 ⇔ 082		
		083 ⇔ 090		
		091 ⇔ 097		
		098 ⇔ 105		
		106 ⇔ 112		
		113 ⇔ 120		
		121 ⇔ 127		
		128 ⇔ 255		
4	000 ⇔ 009		Gobo rotation Stopped Fast > Slow (counter clockwise) Stopped Slow > Fast (clockwise) Stopped	
	010 ⇔ 120			
	121 ⇔ 134			
	135 ⇔ 245			
	246 ⇔ 255			
5	000 ⇔ 255		Dimmer Closed > Open	
			Dimmer (Version B) User Selectable {IdIN} function {no} = Close > Open (0% to 100%) {I} = Open > Close (100% to 0%)	

Gobos



Version (B) Models

The {IdIN} Dimmer Inverse function is available only on Version (B) models of these fixtures. The chart below will help you determine the version of the fixture you may have. This is not a critical function; it is simply an enhanced functionality which in the real world may not find much use. Never the less, we would like to inform you of a possible discrepancy you may encounter with this manual regarding this function.

Version	Model No.	Serial Number Range
A	ILS-606DSR	CH-04085053 ~ CH-04085198 CH-04085049 ~ CH-04085052 3-04121209 ~ 3-04121408 3-04110901 ~ 3-04111000
	ILS-606DBR	CH-04085203 ~ CH-04085273 CH-04085199 ~ CH-04085202 3-04121459 ~ 3-04121558
	ILS-625DCR	CH-04085878 ~ CH-04085948 CH-04085874 ~ CH-04085877 C3-04121409 ~ 3-0412145
B		(all other serial numbers)
		The serial number is located on the fixture's label. The label can be found at the rear of the fixture.

Maintenance

To maintain optimum performance and minimize wear fixtures should be cleaned frequently. Usage and environment are contributing factors in determining frequency. As a general rule, fixtures should be cleaned at least twice a month. Dust build up reduces light output performance and can cause overheating. This can lead to reduced lamp life and increased mechanical wear. Be sure to power off fixture before conducting maintenance.

Unplug fixture from power. Use a vacuum or air compressor and a soft brush to remove dust collected on external vents and internal components. Clean all glass when the fixture is cold with a mild solution of glass cleaner or Isopropyl Alcohol and a soft lint free cotton cloth or lens tissue. Apply solution to the cloth or tissue and drag dirt and grime to the outside of the lens. Gently polish optical surfaces until they are free of haze and lint. Do not touch the lamp glass when cleaning fixture. Oil and dirt can cause damage and premature aging of the lamp. In the event that the lamp is touched or becomes dirty, clean the lamps with an alcohol wipe.

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics. Clean with soft cloth using normal glass cleaning fluid. - Always dry the parts carefully. - Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

Returns Procedure

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Merchandise Authorization Number (RA #). Products returned without an RA # will be refused. Call CHAUVET and request RA # prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. CHAUVET reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Claims

Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise. It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Any other claim for items such as missing component/part, damage not related to shipping, and concealed damage, must be made within seven (7) days of receiving merchandise.

General Troubleshooting

Symptom	Solution(s)	Applies to			
		Lights	Foggers & Snow	Controllers	Dimmers & Chaser
Auto shut off	Check fan thermal switch reset	✓			
Beam is very dim or not bright	Clean optical system or replace lamp Check 220/110v switch for proper setting	✓			
Breaker/Fuse keeps blowing	Check total load placed on device				✓
Chase is too slow	Check users manual for speed adjustment	✓		✓	✓
Device has no power	Check for power on Mains. Check device's fuse. (internal and/or external)	✓		✓	✓
Fixture is not responding	Check DMX Dip switch settings for correct addressing Check DMX cables Check polarity switch settings	✓			
Fixture is on but there is no movement to the audio	Make sure you have the correct audio mode on the control switches. If audio provided via ¼" jack, make sure a live audio signal exists Adjust sound sensitivity knob	✓		✓	✓
Lamps cuts off sporadically	Possible bad lamp or fixture is overheating. Lamp may be at end of its life.	✓			
Light will not come on after power failure	Some discharge lamps require a cooling off period before the electronics in the fixture can kick start it again, wait 5 to 10 minutes before powering up	✓			
Loss of signal	Use only DMX cables Install terminator Note: Keep DMX cables separated from power cables or black lights.	✓	✓	✓	✓
Motor movements are jerky or jumpy	Possible bad motor driver or sensors Check polarity switch on controller	✓		✓	
Moves slow	Check 220/110v switch for proper setting	✓			
No flash	Re-install bulb, may have shifted in shipping	✓			
No light output	Check slip ring & brushes for contact Install bulb Call service technician	✓			
Relay will not work	Check reset switch Check cable connections				✓
Remote does not work	Make sure connector is firmly connected to device	✓	✓		
Stand alone mode	All CHAUVET lighting fixtures featuring stand-alone functions do not require additional settings, simply power the fixture and it will automatically enter into this mode	✓			
Unit wobbles when rotating	Check for damages possibly incurred during shipping	✓			

Technical Specifications

WEIGHT & DIMENSIONS

(ILS-606DBR, ILS-606DSR)	
Length	695 mm (27.36 in)
Width	340 mm (13.39 in)
Height	250 mm (9.84 in)
Weight	15.4 Kg (34 lbs)
(ILS-625DCR)	
Length	360 mm (14.2 in)
Width	340 mm (13.4 in)
Height	250 mm (9.8 in)
Weight	13.2 Kg (29 lbs)

POWER

Switch-selectable power settings	115V 60 Hz or 230V 50 Hz
AC input	3 prongs IEC 60320 C14
European version	240V 50 Hz

LAMPS

CHAUVET US-HSD-250	2000 hr, 6000K, 250W
Philips MSD-250/2	2000 hr, 6500K, 250W
Philips MSD-200	2000 hr, 5600K, 200W

GOBOS

Outside diameter	26.8 mm
Image diameter	21.0 mm
Thickness	0.2 mm

PHOTO OPTIC

Beam Angle	14°
Pan (ILS-606)	180°
Tilt (ILS-606)	70°

THERMAL

Maximum ambient temperature	40° (104° F)
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FUSE

Main	20mm Glass 10A Fast Blow
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CONTROL & PROGRAMMING

Data input	locking 3-pin XLR male socket
Data output	locking 3-pin XLR female socket
Data pin configuration	pin 1 shield, pin 2 (-), pin 3 (+)
Protocols	DMX-512 USITT
DMX Channels (606xxx)	7
DMX Channels (625DCR)	5

ORDERING INFORMATION

Trackscan 250DBR-ILS™ Barrel Scanner	ILS-606DBR
Trackscan 250DSR-ILS™ Mirror Scanner	ILS-606DSR
Colortrack 250DCR-ILS™ Color Changer	ILS-625DCR
Fuse 10A 250V	P170FUSE010

OPTIONS

Easy Controller	CA-8
Easy Foot Controller	CA-8F

Technical Support

Address:	Service Dept. 3000 N 29 th Ct, Hollywood, FL 33020 (U.S.A.)
Support (Email):	tech@chauvetlighting.com
Telephone:	(954) 929-1115 - (Press 4)
Fax:	(954) 929-5560 - (Attention: Service)
Website:	http://www.chauvetlighting.com